

# ADOLESCENCE EDUCATION (BA)

Chair: Barbara A. Burns, PhD

## Introduction

Professional sequences in Adolescence Education give teacher candidates a thorough foundation in the many facets of modern American secondary education and a gradually increasing exposure to the realities of the classroom. A broad range of field experiences, from observation and tutoring to a full semester of student teaching, is an essential part of the curriculum. Each program also includes an integrated sequence of subject-area courses offered by one or more of the academic departments at the college. The Adolescence Education program offers nine certification programs at the Adolescence Level – grades 7 through 12. A more detailed description of the program, faculty, facilities, academic and co-curricular opportunities can be found on the program webpage (<https://www.canisius.edu/academics/programs/adolescence-education-undergraduate>).

## Qualifications

Academic criteria for endorsement and completion of the program are as follows: Students must maintain a cumulative GPA of 2.7 or higher and a grade of C or higher in content and pedagogical courses. They must achieve satisfactory performance in field placements. All candidates must complete a minimum of 120 credit hours to graduate.

## Advisement

All students should have an advisor in the major and should contact the department directly to have an advisor assigned if they do not already have one. Meetings with academic advisors are required prior to students receiving their PIN for course registration each semester. All majors should work closely with their advisor in discussing career expectations, choosing their major electives, developing their entire academic program and planning their co-curricular or supplemental academic experiences.

In addition, candidates will be assigned an advisor in their respective concentration area.

## Double Majors

Students who wish to expand their educational opportunities may decide to declare a double major. The decision may be based on career goals or planned graduate studies. Before a student declares a double major, it is important to meet with the appropriate academic departments for advisement. Some double major combinations can be completed within the minimum 120 credit hour degree requirement, but in some cases additional course work may be required. In order to declare a double major, the student must complete the appropriate double major request form and get the signature of each department chairperson and the appropriate associate dean. Please note that students will receive only one degree, regardless of the number of majors they complete.

## Minors in Other Disciplines

Minors provide students the opportunity to pursue additional interests but generally do not require as many courses as a major. Minors generally range from five to eight required courses. The minors page (<http://catalog.canisius.edu/undergraduate/minors>) provides a complete list of minors and provides links to each minor. Some majors and minors can be

completed within the minimum 120 credit hour degree requirement, but in some cases additional coursework may be required. Students must complete the appropriate minor request form.

## Curriculum

### An Ignatian Foundation

All undergraduate students must complete either the Canisius Core Curriculum (<http://catalog.canisius.edu/undergraduate/academics/curricular-information/core-curriculum>) or the All-College Honors Curriculum (<http://catalog.canisius.edu/undergraduate/academics/curricular-information/all-college-honors-program>). Many schools refer to their college-wide undergraduate requirements as "general education" requirements. We believe that the core curriculum and the honors curriculum are more than a series of required classes; they provide the basis for a Jesuit education both with content and with required knowledge and skills attributes that are central to our mission.

### Free Electives

Students may graduate with more but not less than 120 credit hours. Free electives are courses in addition to the Core Curriculum or Honors Curriculum and major requirements sufficient to reach the minimum of 120 credit hours required for graduation.

### Major Requirements

The Adolescence Education Major includes the following required courses:

Code	Title	Credits
EDS 101	Human Growth and Social Development: Adolescence	3
EDS 223	Foundations of Adolescent Literacy	3
EDS 224	Adolescent Literacy in a New Literacies World	3
EDU 250	Foundations of Education	3
SPE 341	Inclusive Strategies	3
EDS 360	Evaluation and Teaching Strategies	3
EDS 390	Cognition, Learning and Assessment of Adolescence	3
Choose the appropriate course:		3
EDS 402	Methods of Teaching English: Adolescence	
EDS 403	Methods of Teaching Mathematics: Adolescence	
EDS 404	Methods of Teaching Modern Languages: Adolescence	
EDS 405	Methods of Teaching Science: Adolescence	
EDS 406	Methods of Teaching Social Studies: Adolescence	
Choose the appropriate course:		3
EDS 432	Applied Methods of Teaching English: Adolescence	
EDS 433	Applied Methods of Teaching Mathematics: Adolescence	
EDS 434	Applied Methods of Teaching Modern Languages: Adolescence	
EDS 435	Applied Methods of Teaching Science: Adolescence	
EDS 436	Applied Methods of Teaching Social Studies	
EDS 493	Supervised Student Teaching	12
EDU 123	Technology in Education 1 <sup>1</sup>	1
EDU 223	Technology in Education 2 <sup>1</sup>	1
EDU 323	Technology in Education 3 <sup>1</sup>	1
EDU 494	Capstone Seminar for Teacher Candidates	3
EDU 495	Child Abuse Workshop	0

EDU 496	Prevention of School Violence Workshop	0
EDU 497	Dignity for All Students Act (DASA) Workshop	0
EDU 498	Student Teaching Seminar	3
Total Credits		48

<sup>1</sup> Candidates who are pursuing a concentration in Biology, Chemistry, or Physics are not required to take this class, although it is highly recommended.

## Major Experiences

New York State requires the successful completion of at least 100 hours of field experience before student teaching. This requirement is divided up among three courses in the major program. EDU 250 has a 15 hour field experience, EDS 360 has a 30 hour field experience, EDS 402-EDS 406 (choose the appropriate course) has a 30 hour field experience, and EDS 432-EDS 436 (choose the appropriate course) hosts 50 hours. The field experience builds from participatory observation to tutoring or working with small groups to teaching a lesson and then teaching lessons from a learning segment designed by the candidate in the EDS 432-EDS 436 course.

## Academic Concentration

Candidates choose from the following areas of certification: Biology, Chemistry, Physics, Mathematics, English, Social Studies, Spanish, French, or German. Required courses in these content areas are listed below:

### Adolescence Biology Concentration

Code	Title	Credits
BIO 111 & 111L	Introductory Biology I and Introductory Biology Laboratory I	4
BIO 112 & 112L	Introductory Biology II and Introductory Biology Laboratory II	4
BIO 211 & 211L	Biochemistry and Cell Biology I and Biochemistry and Cell Biology Lab I	4
BIO 212 & 212L	Biochemistry and Cell Biology II and Biochemistry and Cell Biology Lab II	4
BIO 408 or BIO 450	Biotechnology, Theory in Practice <sup>1</sup> or Molecular Biology	3-4
BIO 404	Genetics <sup>1</sup>	3
Choose one of the following ecology courses <sup>1</sup>		3-4
BIO 320	Field Ecology	
BIO 375	Community Ecology	
BIO 377	Freshwater Biology	
Choose one of the following microbiology or physiology courses		4
BIO 305 & 305L	Medical Microbiology and its Ecological Basis and Medical Microbiology and its Ecological Basis Lab	
BIO 307 & 307L	Microbiology and Microbiology Laboratory	
BIO 340 & 340L	Physiology and Physiology Laboratory	
<b>In addition to the required biology classes, students also must complete the following courses:</b>		
MAT 111	Calculus I	4
MAT 131 or MAT 141	Statistics for Social Sciences or Inferential Statistics and Computers for Science	3
CHM 111 & 111L	General Chemistry I and General Chemistry I Laboratory	4

PHY 201 & 201L	College Physics I and College Physics I Laboratory	4
Total Credits		44-46

<sup>1</sup> Students must complete a total of 30 biology credits. To reach that total, students must complete one laboratory associated with one of the following classes: BIO 408, BIO 450, BIO 320, BIO 375, BIO 377, BIO 404

To Add Chemistry Certification to the Biology Certification, please add:

Code	Title	Credits
CHM 112 & 112L	General Chemistry II and General Chemistry II Laboratory	4
CHM 227 & 227L	Organic Chemistry I and Organic Chemistry I Laboratory	4
BCH 301 & 301L	Introduction to Biochemistry and Introduction to Biochemistry Laboratory	4
CHM 301	Fundamental Physical Chemistry	3
CHM 381	Scientific Literature and Communication	1
Total Credits		16

### Adolescence Chemistry Concentration

Code	Title	Credits
CHM 104	Energy, Environment, and Society	3
CHM 111 & 111L	General Chemistry I and General Chemistry I Laboratory	4
CHM 112 & 112L	General Chemistry II and General Chemistry II Laboratory	4
CHM 227 & 227L	Organic Chemistry I and Organic Chemistry I Laboratory	4
CHM 228 & 228L	Organic Chemistry II and Organic Chemistry II Laboratory	4
CHM 244	Inorganic Chemistry	3
CHM 301	Fundamental Physical Chemistry	3
BCH 301 & 301L	Introduction to Biochemistry and Introduction to Biochemistry Laboratory	4
Must take one of the following:		1
CHM 301L	Fundamental Physical Chemistry Laboratory	
CHM 381	Scientific Literature and Communication	
<b>In addition to the chemistry courses for the concentration, students also must complete the following related courses:</b>		
BIO 111 & 111L	Introductory Biology I and Introductory Biology Laboratory I	4
GEO 325	Introduction to Physical Geography	3
MAT 111	Calculus I <sup>1</sup>	4
One statistics class. Choose one of the following:		3-4
MAT 131	Statistics for Social Sciences	
MAT 141	Inferential Statistics and Computers for Science	
PHY 201 & 201L	College Physics I and College Physics I Laboratory	4
PHY 202 & 202L	College Physics II and College Physics II Laboratory	4
Total Credits		52-53

<sup>1</sup> Students placed in MAT 109 must also complete MAT 110. This sequence will replace MAT 111.

## Adolescence Mathematics Concentration

Code	Title	Credits
MAT 111	Calculus I	4
MAT 112	Calculus II	4
MAT 211	Calculus III	4
MAT 219	Linear Algebra	4
MAT 222	Differential Equations	3
MAT 230	Logic, Set Theory, and Proofs	4
MAT 301	History of Mathematics	3
MAT 311	Abstract Algebra	4
MAT 331	Geometry	3
MAT 351	Probability & Statistics I	3
One Math (MAT) elective at the 200-level or higher <sup>1</sup>		3
One Computer Science (CSC) course		3
Total Credits		42

<sup>1</sup> Students may also use MAT 121, MAT 150, or MAT 191 to fulfill this requirement.

Please note that students pursuing the Mathematics Concentration are strongly encouraged to complete a dual major with Adolescence Education and Mathematics and Statistics. To complete the dual major, students must add MAT 321; the series of MAT 380, MAT 381, and MAT 480; and one of the following: MAT 312, MAT 322, or MAT 352.

## Adolescence Physics Concentration

Code	Title	Credits
PHY 129 or PHY 130	Introduction to Astronomy Introductory Geology	3
PHY 223 & 223L	General Physics for Physical Science Majors I and General Physics for Physical Science Majors I Laboratory	4
PHY 224 & 224L	General Physics for Physical Science Majors II and General Physics for Physical Science Majors I Laboratory	4
PHY 225 & 225L	General Physics for Physical Science Majors III and General Physics for Physical Science Majors III Laboratory	4
PHY 226 & 226L	Basic Electronics and Basic Electronics Laboratory	4
PHY 330	Electrodynamics I	3
PHY 332	Statistical and Thermal Physics	3
PHY 350	Modern Physics Laboratory	1
PHY 443	Classical Mechanics	3
PHY 449	Nuclear Physics Lab	1
PHY 498	Senior Project	1-3
CHM 111 & 111L	General Chemistry I and General Chemistry I Laboratory	4
CHM 112 & 112L	General Chemistry II and General Chemistry II Laboratory	4
MAT 111	Calculus I	4
MAT 112	Calculus II	4

MAT 222	Differential Equations	3
Total Credits		50-52

## Adolescence English Concentration

Code	Title	Credits
ENG 299	Introduction to English Studies	3
One course in Women's Literature		3
One course in Multicultural Literature		3
One course in Global Literature		3
One course in Writing (300 level or Creative Writing)		3
ENG 322 or ENG 323	Shakespeare I Shakespeare II	3
One Pre-1800 British Literature course		3
One Post-1900 American Literature Course		3
One Pre-1900 American Literature course		3
EDS 370	Teaching Young Adolescent Literature	3
EDU 410	Teaching Writing in the Schools	3
Total Credits		33

## Adolescence Social Studies Concentration

Code	Title	Credits
HIS 107 or HIS 212	History of Modern Europe to 1815 (European History) Men and Ideas in History	3
HIS 108 or HIS 211	History of Modern Europe since 1815 (European History) Women In The Western World	3
HIS 123 & HIS 124	History of the United States: The Colonial Period to Reconstruction and History of the United States: 1877 to the Present (American History)	6
HIS 300	Historical Geography (World History)	3
ECO 101 & ECO 102	Principles of Macroeconomics and Principles of Microeconomics (Economics)	6
PSC 103 or PSC 104	The American Constitution (Political Science) American Political Process	3
PSC 140 or PSC 150	International Relations (Political Science) Comparative Government and Politics	3
One Culture Class (see department for current list of courses that fulfill this requirement)		3
Total Credits		30

Please note that students pursuing the Social Studies Concentration are strongly encouraged to complete a dual major with Adolescence Education and History. To complete the dual major, students must add the following courses: HIS 382; one of HIS 211, HIS 213, or HIS 230; one of HIS 110, HIS 131, or HIS 132; and one elective at the 300-level.

## Adolescence Spanish Concentration

Code	Title	Credits
SPA 215	Intermediate Spanish <sup>1</sup>	3
SPA 217	Introduction to Spanish Composition <sup>1</sup>	3
SPA 323	Topics in Conversation I: Peninsular Culture and Conversation	3

SPA 324	Topics in Conversation II: Latin American Culture and Civilization	3
SPA 332	Advanced Spanish Composition	3
Five Spanish electives		15
Total Credits		30

<sup>1</sup> Students who begin study at the 300-level will have the 200-level courses waived, but still need 10 courses for the concentration.

## Middle School Extension

Candidates wishing to obtain an extension to teach grades 5-6 in their area of concentration must take EMC 352 and EMC 391 in addition to the courses listed above.

### Freshman

Fall	Spring
EDU 100 (Not required but strongly recommended)(Fall Only)	EDU 250
EDS 101	EDU 495 (co-requisite with 250)
EDU 123 (May be taken Fall or Spring)	EDU 496 (co-requisite with 250)
	EDU 123 (May be taken Fall or Spring)

### Sophomore

Fall	Spring
EDS 223 (20 hours field experience)	EDS 224 (Spring Only)
SPE 341	EDU 223 (May be taken Fall or Spring)
EDU 223 (may be taken Fall or Spring)	EMC 352 (Optional - needed for middle childhood extension)(Spring Only)

### Junior

Fall	Spring
EDS 360 (Fall Only)	EDS 402, 403, 404, 405, or 406 (Methods Class) (Spring Only) <sup>1</sup>
EDS 390	EDU 323 (May be taken Fall or Spring)
EDU 323 (may be taken Fall or Spring)	
EMC 391 (Optional - needed for middle childhood extension) (Fall Only)	

### Senior

Fall	Spring
EDS 432, 432, 433, 434, 435, or 436 (Fall Only)	EDS 493
EDU 494	EDU 497 (co-requisite 493)
	EDU 498

<sup>1</sup> Choose course based on appropriate concentration.

## Learning Goals & Objectives

### Learning Goal 1 (KNOWLEDGE – Observed in Writing)

Candidates in the Teacher Education programs will demonstrate content knowledge, pedagogical, and professional knowledge necessary for successful performance in their field.

Teacher candidates will:

- Acquire knowledge of each student, and demonstrate knowledge of student development and learning to promote achievement for all students.
- Know the content they are responsible for teaching, and the pedagogical content knowledge to plan instruction that ensures growth and achievement for all students.

### Learning Goal 2 (KNOWLEDGE – Observed Skills and Dispositions)

Candidates in the Teacher Education programs will demonstrate professional skills and dispositions necessary for successful performance in their field.

Teacher candidates will:

- Demonstrate professional dispositions and implement instruction that engages and challenges all students to meet or exceed the learning standards.

### Learning Goal 3 (SERVICE)

Candidates in the Teacher Education programs will demonstrate willingness to use their skills to benefit and serve society. Within the contexts of their work, candidates promote authentic learning, social and emotional development, and a commitment to social justice in environments that foster respect for diversity and the dignity of all.

Teacher candidates will:

- Work with all students to create a dynamic learning environment that supports achievement and growth.
- Use multiple measures to assess and document student growth, evaluate instructional effectiveness, and modify instruction for diverse learners.

### Learning Goal 4 (PROFESSIONALISM)

Candidates will demonstrate self-reflection as a habit of mind, continuously assessing and refining their professional practice as they construct a rich repertoire of research-based knowledge, skills, and attitudes for effective performance ensuring that all students and/or clients have optimal opportunities to learn and grow.

Teacher candidates will:

- Set informed goals and strive for continuous professional growth.

**Learning Goal 5 (LEADERSHIP)**

Candidates will become adept at applying their acquired knowledge in the process of evaluating their own professional performance and decision-making with respect to its impact on students and/or clients, organizations, and the wider community.

Teacher candidates will:

- Demonstrate professional responsibility and engage relevant stakeholders to maximize impact on student growth, development, and learning.